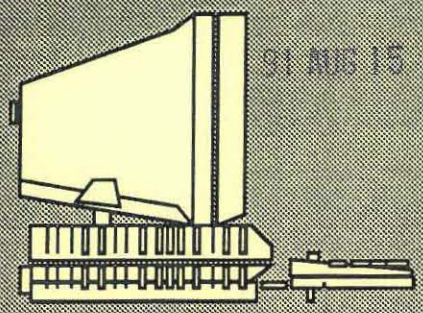
1991

Center for Computer and Information Sciences Master of Science in Computer Information Systems Fall Courses 1991

Nova Southeastern University



NOVA UNIVERSITY

Center For Computer and Information Sciences

MASTER OF SCIENCE IN COMPUTER INFORMATION SYSTEMS

91F CSMFTLAUFLMC **COURSES FOR THE FALL TERM**

September 23, 1991 - December 13, 1991 Session: Z1

Course Number	Course Title	Day/Time		Professor	Room
CISC 6000 CEI	Computer Systems	TH	6:00-10:00	E. Chao	SB - 12
CISC 6001	Programming Languages	M	6:00-10:00	E. Chao	SB - 1
CISC 6002	Program, Data, and File Structures	T	6:00-10:00	E. Chao	SB - 3
CISC 6021	Office Automation Systems	TH	6:00-10:00	B. Hartman	SB - 1
CISC 6060	Modeling and Decision Systems	T	6:00-10:00	R. Barrett	SB - 1
CISC 6070	Systems Design Process	W	6:00-10:00	R. Barrett	SB - 1
CISC 6082	Information Systems Project	W	6:00-10:00	J. Levin	TR - 1

COURSE DESCRIPTIONS Set-up Courses from Course Add Form.

CISC 6000 COMPUTER SYSTEMS - Introduction to digital computer design, peripheral devices, storage allocation, operating systems, compilers and assemblers. An understanding of the total operating environment will be developed. Investigation of the common programming techniques and their theory. Segmentation and overlays, recursion, dynamic storage processing, (stacks, queues, trees), macros.

CISC 6001 PROGRAMMING LANGUAGES - Introduction to data structures and data types, and understanding of the modern approach to structured programming will be developed. A comparative study of several high-level programming languages. Emphasis will be placed on how concepts are expressed in each of the major languages, such as "C" and PASCAL.

CISC 6002 PROGRAM, DATA, AND FILE STRUCTURES - Since reliable information systems require reliable programs, this course presents modern, structured techniques in "C" and PASCAL. Topics include control structures (e.g., loops and branching), data structures (e.g., stacks, queues, linked lists, trees, hashing), and file structures (e.g., access methods, ISAM, VSAM, BTrees). Also covered are design methods such as stepwise refinement, top-down, information hiding, and structured design.

CISC 6021 OFFICE AUTOMATION SYSTEMS - This course focuses on strategies for utilizing technology to handle the information used in the office to improve the quantity, content, and format of work performed. Topics include the design and implementation of an office automation system; strategies for successful end-user computing; and OA applications including electronic mail and voice mail; windowing; multi-tasking; computer conferencing; computer-supported cooperative work; project management software; and decision support programs. The impact of ISDN on the office environment will also be examined.

CISC 6060 MODELING AND DECISION SYSTEMS - This course introduces students to the principles and techniques needed for using an information system in decision making. Topics include problem representation, structured and unstructured decision making, model formulation, decision theory, linear programming, queuing, simulation, risk analysis, cost-benefit analysis, idea generation, delphi techniques.

CISC 6070 SYSTEMS DESIGN PROCESS - This course focuses on the information system design process and methodology. Among the issues to be addressed are: the user oriented application description; functions to be performed by the application system; logical and physical design; outputs; hardware and software selection; planning to accommodate change; and audit and control processes such as, quality assurance, program development testing and maintenance.

CISC 6082 INFORMATION SYSTEMS PROJECT - Students are assigned a project that involves part or all of the system development cycle. Students will gain experience in analyzing, designing, implementing, and evaluating information systems applications.

PHONE - In Broward, 475-7563 or Toll Free, 1-800-541-NOVA, ext. 7563 to request registration forms and a current course schedule.

Room SB - Classes will be held at Nova University Main Campus in the Joe Sonken Building.

Room TR - IRS Classroom Trailer